

# Qin Wang (王沁)

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## EDUCATIONAL BACKGROUND

**Swinburne University of Technology & CSIRO Data61, Melbourne, Australia.** 2018.08-Present

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Supervisor: Prof. Xiang Yang (Swinburne), Dr. Shiping Chen (Data61)  
Major: Blockchain / Cybersecurity / Applied Cryptography  
Faculty of Science Electronic & Technology  
Cooperated with CSIRO Data61  
Full Scholarship (University scholarship + Data61 topup)

**Beihang University (BUAA), Beijing, China.** 2015.09-2017.09

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Supervisor: Prof. Qianhong Wu, BUAA  
Major: Cryptography / Cryptocurrencies / Blockchain  
School of Electronic and Information Engineering  
Master Degree with Average Score of 87.26  
Be recommended from NPU to BUAA without National Graduate Entrance Examination

**Northwestern Polytechnical University (NPU), Xi'an, China.** 2011.09-2015.07

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Major: Electronic Information Science and Technology  
School of Electronic and Information Engineering  
Bachelor Degree with Average Score of 85.18 in Top 20%  
Study in the International Class, which is an elite class selected by top 10%

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## RESEARCH

Full publication list can be found at [[Google Scholar](#)], [[DBLP](#)] and [[ResearchGate](#)]. Most of my papers are available online. Please kindly find them by aforementioned links if required.

### Publications

- [16] Qin Wang, Shiping Chen, Yang Xiang. "Anonymous Blockchain-based System for Consortium." ACM Transactions on Management Information Systems (ACM TMIS), 2021.
- [15] Qin Wang\*, Rujia Li\*. "A Weak Consensus Algorithm and Its Application to High-Performance Blockchain." IEEE International Conference on Computer Communications (INFOCOM), 2021. (\* Equal Contribution)
- [14] Rujia Li, Qin Wang, Xinrui Zhang, Qi Wang, David Galindo, Yang Xiang. "An Offline Delegatable Cryptocurrency System." IEEE International Conference on Blockchain and Cryptocurrency (ICBC), 2021.
- [13] Rujia Li, Qin Wang, Feng Liu, Qi Wang, David Galindo. "An Accountable Decryption System based on Privacy-Preserving Smart Contracts." (ISC), 2021.
- [12] Bozhi Wang, Shiping Chen, Lina Yao, **Qin Wang**. ChainSim: "A P2P Blockchain Simulation Framework." CCF China Blockchain Conference, 2020.
- [11] Qin Wang, Longxia Huang, Shiping Chen, Yang Xiang. "Blockchain enables Your Bill Safer." IEEE Internet of Things Journal (IoT Journal), 2020.

- [10] Bozhi Wang\*, Qin Wang\*, Shiping Chen, Yang Xiang. "Security Analysis on dBFT protocol of NEO." Australasian Conference on Information Security and Privacy (ACISP), 2020. (\* Equal Contribution)
- [9] Qin Wang, Jiangshan Yu, Zhiniang Peng, Van Cuong Bui, Shiping Chen, Yong Ding, Yang Xiang. "Security Analysis on dBFT protocol of NEO." Financial Cryptography and Data Security (FC), 2020.
- [8] Zhiyu Xu, Qin Wang, Ziyuan Wang, Donghai Liu, Yang Xiang, Sheng Wen. "PPM: A Provenance-Provided Data Sharing Model for Open Banking via Blockchain." In Proceedings of the Australasian Computer Science Week Multiconference (ACSW), pp.1-8, 2020.
- [7] Zhiyu Xu, Tengyun Jiao, Qin Wang, Cuong Bui Van, Sheng Wen, Y Xiang. "An Efficient Supply Chain Architecture Based on Blockchain for High-value Commodities." Proceedings of the 2019 ACM International Symposium on Blockchain and Secure Critical Infrastructure (BSCI), 2019.
- [6] Xiaotao Feng, Qin Wang, Xiaogang Zhu, Sheng Wen. "Bug Searching in Smart Contract." 2019.
- [5] Ziyuan Wang, Lin Yang, Qin Wang, Donghai Liu, Zhiyu Xu and Shigang Liu. "ArtChain: Blockchain-Enabled Platform for Art Marketplace." IEEE International Conference on Blockchain (Blockchain), pp. 447-454, 2019.
- [4] Mingming Wang, Qianhong Wu, Bo Qin, Qin Wang, Jianwei Liu, Zhenyu Guan. "Lightweight and Manageable Architecture of Decentralized Digital Evidence Preservation System". 9th IEEE International Workshop on Information Forensics and Security (WIFS), 2017.
- [3] Qin Wang, Bo Qin, Jiankun Hu. "Preserving Transaction Privacy in Bitcoin". Future Generation Computer System (FGCS), 2017.
- [2] Jikun Huang, Bo Qin, Qin Wang. "Cecoin: A Decentralized PKI Mitigating MitM Attacks". Future Generation Computer System (FGCS), 2017.
- [1] Ya-Nan Li, Qianhong Wu, Wenyi Tang, Bo Qin, Qin Wang, Meixia Miao. "Oursourcing Encrypted Excel System". International Conference on Information Security Practice and Experience (ISPEC), 2017.

## Recent Preprints

- [4] Rujia Li, Qin Wang, Qi Wang, David Galindo, Mark Ryan. "Rethinking TEEs-assisted Confidential Smart Contract." 2021.
- [3] Qin Wang\*, Rujia Li\*, Qi Wang, Shiping Chen. "Non-Fungible Token (NFT): Overview, Evaluation, Opportunities and Challenges." 2021. (\* Equal Contribution)
- [2] Qin Wang, Rujia Li, Shiping Chen, Yang Xiang. "Formal Security Analysis on dBFT protocol of NEO." 2021.
- [1] Qin Wang, Jiangshan Yu, Shiping Chen, Yang Xiang. "SoK: Diving into DAG-based Blockchain Systems." 2020.

## Posters

- [4] Qin Wang\*, Rujia Li\*, Qi Wang. "Poster: A Weak Consensus Algorithm and Its Application to High-Performance Blockchain." Proceedings of the 28th Annual Network and Distributed System Security Symposium (NDSS), 2021. (\* Equal Contribution)
- [3] Rujia Li\*, Qin Wang\*, Xinrui Zhang, Qi Wang, David Galindo, Yang Xiang. "An Offline Delegatable Cryptocurrency System." Proceedings of the 28th Annual Network and Distributed System Security Symposium (NDSS), 2021. (\* Equal Contribution)
- [2] Qin Wang\*, Rujia Li\*, Qi Wang, David Galindo. "Poster: Transparent Certificate Revocation for CBE Based on Blockchain." 41st IEEE Symposium on Security and Privacy (S&P), 2020. (\* Equal Contribution)
- [1] Qin Wang. "Improving the scalability of blockchain through DAG." In Proceedings of the 20th International Middleware Conference Doctoral Symposium (Middleware DocSymp), 2020.

## Patents

[1] Qianhong Wu, Qin Wang. "A Method to Improving Transaction Privacy in Bitcoin". State Intellectual Property Office of the P.R.C (SIPO). Patent Number CN106911470B. Status: Granted. 2017 (China)

## Graduation Topics

Master: "Improving the Transaction Privacy in Bitcoin".

Advisor: Prof. Qianhong Wu, BUAA. 2015-2018

Bachelor: "The Calculation of Depth Image based on Kinect Camera".

Advisor: Prof. Mingyi He, NPU. 2014-2015

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## WORK EXPERIENCE

Blockchain DATA Foundation ([Full Time](#)), Beijing, China. 2018.04-2018.07

Position: R&D of Blockchain.

High Performance Blockchain ([Internship](#)), Beijing, China. 2017.10-2018.04

Position: R&D of Blockchain.

Samsung China Semiconductor (Internship), Xi'an, China. 2015.02

Position: Semiconductor Engineer

Huawei Authorized Network Training Center (Internship), Xi'an, China. 2014.08

Position: Network Engineer.

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## Talks

Paper presentation, INFOCOM'21. May 2021. Online.

Paper presentation, ICBC'21. May 2021. Online

Poster presentation, NDSS'21. Feb 2021. Online

Paper presentation, ACISP'20. Dec 2020. Online

Paper presentation, ISC'20. Dec 2020. Online

Poster presentation, SP'20. May 2020. Online

Paper presentation, FC'20. Feb 2020. Kota Kinabalu, Malaysia

Poster presentation, Middleware'19. Dec 2019. Online

Talks, NSCLab. July 2019. Melbourne, Australia

Talks, CSIRO Data61. March 2019, Adelaide, Australia

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## Academic Services

Invited reviewer: [Publons](#)

ETT (2021), IEEE Access (2020, 2019), TDSC (2020, 2019), TII (2019),

IoTJ (2020), BSCI (2020)

External reviewer:

ESORICS (2020), ICBC (2021, 2020, 2019),

ACM Computing Surveys (2020, 2019), SciSec (2019)

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## HONORS

### Honors

Outstanding Student Cadre, BUAA. 2016.07

Excellent Student, NPU(top 30%). 2013.09

### Scholarship

National Scholarship Award, the Ministry of Education of China (Top 0.2%). 2017.09

Second Prize of Scholarship, BUAA (top 30%). 2015.09

Scholarship of International Class, NPU (top 20%). 2011-2015

### Competition

The Second Prize, Mathematical Modeling Competition, NPU (top 20%). 2012.06

The Third Prize, Mathematical Modeling Competition, NPU (top 40%). 2013.06

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## EXCHANGE EXPERIENCE

National Taiwan University of Science and Technology. Taiwan, China.

Exchange Student during 2014.02-2014.06

Pukyong National University. Busan, Korea.

Winter Camp in 2014.02

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## CAMPUS ACTIVITIES

Vice Minister of the Liaison Department of Student Union, BUAA. 2015.09-2016.09

Secretary of the Publicity Department of Student Union, BUAA. 2015.09-2016.09

Volunteer of the Entrepreneurship Week of 2014 Xi'an Station, Xi'an. 2014.11

Vice president of Guitar Association, NPU. 2012.05-2013.05

Secretary of Publicity Department in the Student Union, NPU. 2011.09-2012.09

Members of the "Blue Heart volunteer" service team, NPU. 2011.09-2012.09